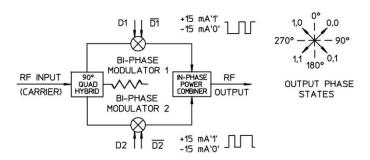
JPF-21E SERIES - QUADRAPHASE MODULATORS

TECHNICAL FEATURE

FEATURES

- Units to 1 GHz
- High Data Bandwidth
- Differential ECL/TTL Compatible Drive
- Hi-Rel Package



	PRINCIPAL SPECIFICATIONS							
Model Number	Center Frequency, f _{o,} MHz	RF Input Bandwidth	Amplitude Balance, dB, Max.	Phase Balance at Center, fo Typ. Max.		Phase Balance at 10% Band Limits Typ. Max.		Insertion Loss, dB, Max.
JPF-21E-***B	10 - 200	10% of fo	0.5	±1°	±2°	±2°	±4 °	6
JPF-21E-***B	200 - 1000	10% of f_o	1.0	±1°	±3°	±3°	±5°	9
For complete Model Number replace *** with desired Center Frequency, fo in MHz.								

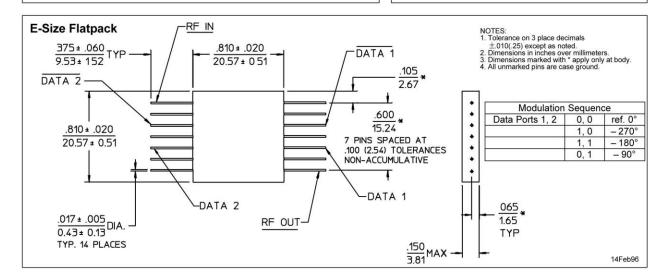
General Notes:

- 1. Units in the JPF-21E series of Quadraphase Modulators are composed of two biphase modulators, a 90° quadrature hybrid and an in-phase power combiner.
- 2. These devices are generally used in systems to generate QPSK coded signals. The units accept two differential data inputs each of which independently biphase modulates an RF carrier. These are then combined to produce a quadraphase output of 0, 90, 180 and 270 degrees. Differential drive allows easy interface with ECL/TTL drivers.
- 3. The JPF-21E series is available with frequencies from 10 to 1000 MHz for special orders.
- 4. Merrimac Quadraphase Modulators comply with the relevant sections of MIL-M-28837 and may be supplied screened for compliance with additional specifications for military and space applications requiring the highest reliability.

GENERAL SPECIFICATIONS

Logic 0: - 15 mA nom.

Weight, nominal: 0.32 oz (9 g)
Operating Temperature: -55° to +85°C



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